

Title (en)

SPARK PLUG MANUFACTURING METHOD, AND SPARK PLUG

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER ZÜNDKERZE UND ZÜNDKERZE

Title (fr)

PROCÉDÉ DE FABRICATION DE BOUGIE D'ALLUMAGE, ET BOUGIE D'ALLUMAGE

Publication

EP 2131460 B1 20131009 (EN)

Application

EP 08738983 A 20080327

Priority

- JP 2008055833 W 20080327
- JP 2007087657 A 20070329

Abstract (en)

[origin: EP2131460A1] There is provided according to the present invention a manufacturing method of a spark plug that includes a cylindrical metal shell, a cylindrical ceramic insulator retained in the metal shell, a center electrode retained in the ceramic insulator and extending in an axial direction and a ground electrode having a rear end portion fixed to the metal shell and a front end portion formed with a protruding region facing a front end portion of the center electrode with a gap left therebetween and being of substantially uniform thickness except for an area where the protrusion is formed. The spark plug manufacturing method includes a press forming step for pressing the whole of a ground electrode material for constituting the ground electrode, so as to form a protruding region on a front end portion of the ground electrode material and a welding step for, after the press forming step, welding a rear end portion of the ground electrode material to the metal shell.

IPC 8 full level

H01T 21/02 (2006.01); **H01T 13/32** (2006.01)

CPC (source: EP US)

H01T 13/32 (2013.01 - EP US); **H01T 21/02** (2013.01 - EP US)

Cited by

EP2325959B1; EP2346125B1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2131460 A1 20091209; EP 2131460 A4 20130109; EP 2131460 B1 20131009; CN 101632205 A 20100120; CN 101632205 B 20120627; JP 2008270189 A 20081106; JP 4716296 B2 20110706; US 2010109502 A1 20100506; US 8298030 B2 20121030; WO 2008123344 A1 20081016

DOCDB simple family (application)

EP 08738983 A 20080327; CN 200880007802 A 20080327; JP 2008055833 W 20080327; JP 2008074384 A 20080321; US 53285008 A 20080327